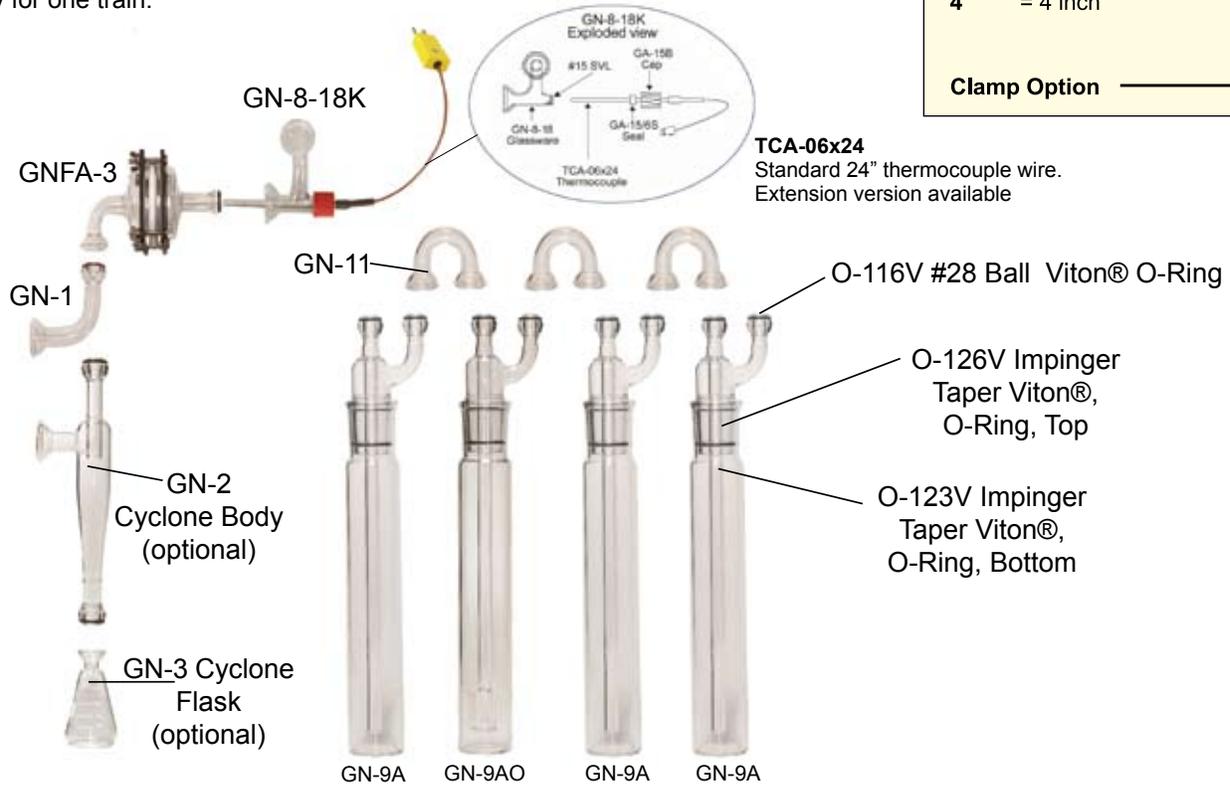


ISOKINETIC SOURCE SAMPLING EQUIPMENT

ISOKINETIC GLASSWARE SETS

BASIC GLASSWARE SETS

Apex Instruments offers a complete line of glassware. Our **Standard Glassware** features extra heavy borosilicate glass with unground #28 Ball and Socket Joints with O-Ring Seals. Cost effective unground joints are more durable than ground joints and the O-Rings provide a tight, leak-free seal without grease. This set includes all the glassware necessary for one train.



Basic Method 5 Glassware
GN - CGS □ - □

Filter Assembly Size ———— ↑ ————
Blank = 3 inch
4 = 4 inch

Clamp Option ———— ↑ ————

Basic Method 4 Glassware Sets

Model	Description
GN-CG4	Basic Method 4 (Moisture) Glassware Set

Basic Method 4 Includes:

Qty	Part	Description
1	GN-8	Double L Adapter, Unground #28 Sockets
1	GN-9AO	Greenburg Smith Impinger with Orifice, Unground
3	GN-9A	Modified Greenburg Smith Impinger, Plain, Unground
3	GN-11	U-Tube, Unground Sockets
12	BS28WS	#28 Ball Joint Clamp, Generic

Basic Method 5 Glassware Sets

Model	Description
GN-CGS	Basic Method 5 Glassware Set (3" Filter Assembly)
GN-CGS4	Basic Method 5 Glassware Set (4" Filter Assembly)
GN-CGS-Z	Basic Method 5 Glassware Set (3" Filter Assembly) with OZ style Clamps
GN-CGS4-Z	Basic Method 5 Glassware Set (4" Filter Assembly) with OZ Style Clamps

Basic Method 5 Includes:

Qty	Part #	Description
1	GN-1	Cyclone Bypass, Unground with O-Ring
1	GNFA-3 or GNFA-4	Filter Assembly, Unground Glass, PTFE Frit, Open Style Aluminum Clamp, 3" or 4"
1	GN-8-18K	Double "L" Adapter with Type K Thermocouple Assembly, Cap and Silicone Seal
1	GN-9AO	Greenburg Smith Impinger with Orifice, Unground
3	GN-9A	Modified Greenburg Smith Impinger, Plain, Unground
3	GN-11	U-Tube, Unground Sockets
12	BS28WS	#28 Ball Joint Clamp, Generic

Alternative Styles and Filter Assemblies Are also Available.

DELUXE METHOD 5 GLASSWARE SET WITH TRANSPORT CASE



Case Dimensions:

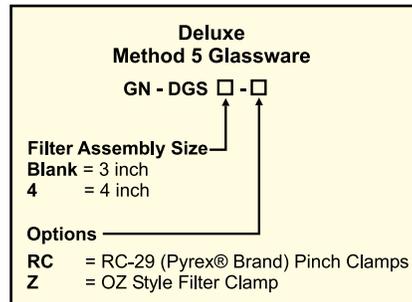
25" (63.5 cm) x 19" (48.2 cm) x 23" (58.4 cm)

Full Weight: 63 lbs. (29 kg.)

Empty Weight: 39 lbs. (18 kg.)

DELUXE METHOD 5 GLASSWARE SET

The **Deluxe Method 5 Glassware Set with Transport Case (GN-DGS)** contains all the glassware plus spares for a full test series. Four filter assemblies cover three sampling runs plus one as a spare. Two full sets of impingers and U-Tubes permit a second run before recovering the first run results. The deluxe glassware set includes spare impingers, U-tubes and Double "L" adapters. The glassware set fits easily into foam lined custom pockets. The sturdy transport case is lockable for secure chain-of-custody. Optional FEP Encapsulated O-Rings are available upon request.



#28 Ball Joint Sockets are Standard.

NOTE: Set does not include cyclone or cyclone flask. Spare O-Rings are included.

Deluxe Method 5 Glassware Set Includes:

Qty	Part	Description
1	TC-GW2.5	Glassware Transport Case
4	GN-1	Cyclone Bypass, Unground with O-Ring
4	GNFA-□	Filter Assembly, Unground Glass, PTFE Frit, Open Style Aluminum Clamp. - Specify Size 3" or 4"
2	GN-8	Double "L" Adapter, Unground Sockets
2	GN-8-18K	Double "L" Adapter with Type K Thermocouple Assembly, Cap and Silicone Seal
3	GN-9AO	Greenburg Smith Impinger with Orifice, Unground
7	GN-9A	Modified Greenburg Smith Impinger, Plain, Unground
8	GN-11	U-Tube, Unground Sockets
30	BS28WS	#28 Ball Joint Clamp, Generic
1	GA-3P	Filter Tripod
30*	O-116S	Silicone O-Ring for Grooved #28 Ball
10*	O-123V	Bottom Viton® O-Ring for Impinger Insert
10*	O-126V	Top Viton® O-Ring for Impinger Insert

* Spares

Deluxe Method 5 Glassware Set

Model	Description
GN-DGS	Deluxe Method 5 Glass Set w/ Transport Case (GNFA-3")
GN-DGS4	Deluxe Method 5 Glass Set w/ Transport Case (GNFA-4")

GLASSWARE ACCESSORIES

Caps & Seals



Product	Description
GA-GL-18B	Bored Cap with hole, #18 threads
GA-18C	Solid Cap without hole, #18 threads
GA-GL-18S	#18 Silicone Seal Ring, 50 Durometer #18 Threads, 6.5mm Hole Diameter
GA-GL-18ST	#18 Silicone with PTFE Seal Ring, #18 Threads, 6.5mm Hole Diameter, w/PTFE on half
GA-GL-18T6	#18 Threads Silicone Seal Ring 6.5mm Hole Diameter with PTFE on half
GA-GL-18T8	#18/8 PTFE Seal Ring
GA-GL-18/9	#18 Silicone Seal Ring, with PTFE 9 mm to 11 mm

#28 Ball Joint & Taper Joints Seals

Product	Description
O-116V-DZ	Viton® O-Ring for grooved #28 ball, dozen
O-116T-DZ	TFE Encapsulated Silicone O-Rings for grooved #28 ball, dozen
O-123V-DZ	Viton® O-Ring for bottom groove in Impinger Stem Joint, Dozen
O-126V-DZ	Viton® O-Ring for top groove in Impinger Stem Joint, Dozen



Ball Joint Clamps

Product	Description
BS28WS	#28 Stainless steel ball joint clamp
RC-29	#28 Stainless steel ball joint clamp, Pyrex brand
KBS-29	Keck Clip, #29, plastic ball joint clamp

GLASSWARE FILTER ASSEMBLIES & COMPONENTS



2" Uground Glass, PTFE Filter Support, Open Style Aluminum Clamp.

GNFA-2



2" U-Style Uground Glass, with 90° inlet & outlet, PTFE Filter Support, Open Style Aluminum Clamp.

GNFA-2U



3" Uground Glass, PTFE Filter Support, Open Style Aluminum Clamp.

GNFA-3



3" Uground Glass Filter Support, OZ Style Threaded Filter Clamp.

GNFA-3Z



Open Style Aluminum Clamp, U-Style with 90° inlet and outlet, and #18 threaded joint.

GNFA-3U-18

Kit with Thermocouple Assembly.

GNFA-3U-18K



3" Uground Glass, PTFE Filter Support, Open Style Aluminum Clamp, Straight Through Style.

GNFA-3-STR



4" Uground Glass, PTFE Filter Support, Open Style Aluminum Clamp.

GNFA-4



4" Uground Glass, PTFE Filter support, OZ Style Threaded Filter Clamp.

GNFA-4Z



4 inch Filter Assembly, Unground Glass, Poly Donut Spacer with TC assembly, Dual PTFE Frits, Open Style Aluminum Clamp.

GNFA-4-5G

2" Filter Components (55mm)

Model	Description
GN-2S	2" Glass Filter Inlet, #28 Unground Socket, 90 Degree Bend
GN-2B	2" Glass Filter Outlet, #28 Unground O-Ring Ball
GA-2CA	2" Aluminum Filter Clamp, Open Plate Style
GA-2T	2" PTFE Filter Support with Viton® O-Rings
O-138T	FEP Encapsulated O-Ring for GA-2T
O-138V	Viton® O-Ring for GA-2T
GA-2P	2" Nylon Filter Tripod
GN-2S-18K	2" Glass Filter Inlet, #28 Unground Socket, 90 Degree Bend

3" Filter Components (82.6mm)

Model	Description
GN-3S	3" Glass Filter Inlet, #28 Unground Socket, 90 Degree Bend
GN-3SS	3" Glass Filter Inlet, Straight with #28 Unground Socket
GN-3SS-S	3" Glass Short Stem, Straight Inlet with #28 Unground Socket
GN-3S-18	3" Glass Filter Inlet, #28 Unground Socket, 90 Degree Bend #18 screw joint for Thermocouple
GN-3B	3" Glass Filter Outlet, #28 Unground O-Ring Ball
GA-3CA	3" Aluminum Filter Clamp, Open Plate Style
GA-3CZ	3" Single Thread Filter Clamp Assembly, OZ Style
GA-3T	3" PTFE Filter Support with Viton® O-Rings
GA-3SS	3" Machined Stainless Steel Filter Support Disk with Viton® O-rings, Accepts 82.6 mm filter
O-152T	FEP Encapsulated O-Ring for GA-3T
O-152V	Viton® O-Ring for GA-3T
GA-3G	3" Glass Filter Disk with Rubberized Edge
GA-3P	3" Nylon Filter Tripod



3" Filter PTFE Disk with Viton O-rings.
GA-3T..\$79.00



3" Stainless Steel Filter Support Disk.
GA-3SS..\$137.00



3" Glass Filter Disk with Rubberized Edge.
GA-3G..\$87.00

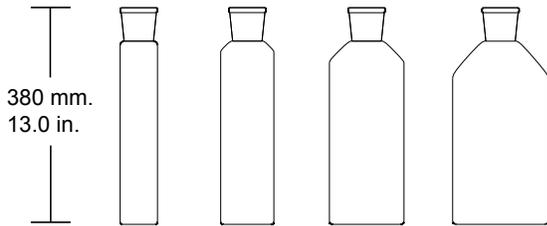
4" Filter Components (110mm)

Model	Description
GN-4S	4" Glass Filter Inlet, #28 Unground Socket, 90 Degree Bend
GN-4B	4" Glass Filter Outlet, #28 Unground O-Ring Ball
GA-4CA	4" Aluminum Filter Clamp, Open Plate Style
GA-4CZ	4" Single Thread Filter Assembly, OZ Style
GA-4T	4" FEP Filter Support with Viton® O-Rings
O-156T	FEP Encapsulated O-Ring for GA-4T with Hollow Silicone Core
O-156V	Viton® O-Ring for GA-4T
GA-4P	4" Nylon Filter Tripod

INDIVIDUAL GLASSWARE AND ACCESSORIES

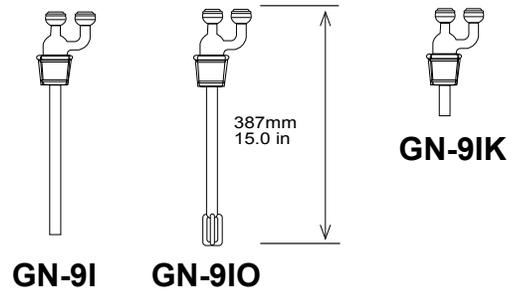
Apex Instruments offers a complete line of glassware featuring Extra Heavy Borosilicate Glass with unground #28 ball and socket joints with O-Ring seals. Unground joints are more durable and price effective than ground joints and the O-Rings provide a tight, leak-free seal without grease. Standard GN-Series Glassware includes Unground O-Ring joints and double O-Ring 45/50 taper joints.

BOTTLES



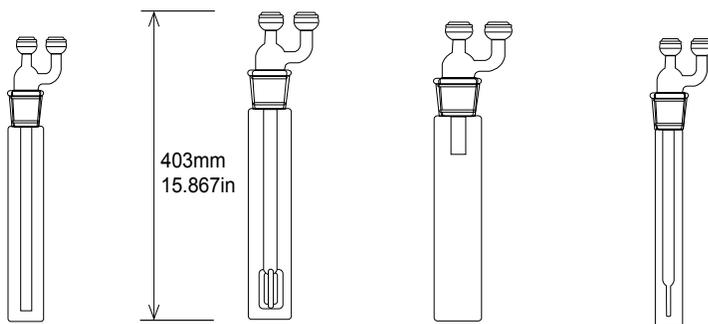
Model	Description
GN-9B	Bottle, unground taper joint, 500 ml, 330 mm x 57 mm
GN-9B-1	1.0 liter, 330 mm x 75 mm
GN-9B-1.5	1.5 liter, 330 mm x 100 mm.
GN-9B-2	2 liter, 330 mm x 110 mm
GN-9B-4	4 liter, 330 mm x 140 mm
GN-9B-M7	Method 7 Bottle, 250 ml, accepts GN-9I. 330 mm x 38 mm

INSERTS



Model	Description
GN-9I	Modified Greensburg-Smith O-Ring balls (plain stem), unground taper joint with double O-Ring seals
GN-9IO	Greenburg-Smith (orifice stem), O-Ring ball, unground taper joint with double O-Ring seals
GN-9IK	Knock-out stem, O-Ring balls, unground taper joint with double O-Ring seals

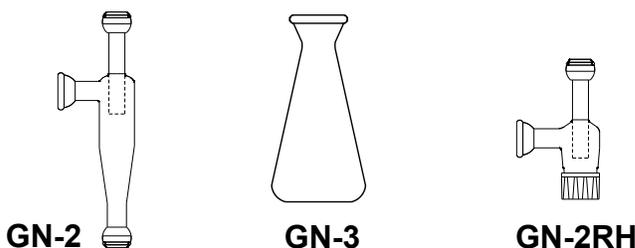
IMPINGER ASSEMBLIES (BOTTLES WITH INSERTS)



GN-9A GN-9AO GN-9AK GN-9AO-M7

Model	Description
GN-9A	Modified Greenburg-Smith (plain stem), 500 ml
GN-9AO	Greenburg-Smith (stem with orifice and plate), 500 ml
GN-9AK	Knock-out (short stem), 500 ml
GN-9AO-M7	Method 7 (stem with restricted orifice), 250 ml

CYCLONES

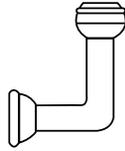


Model	Description
GN-2	Cyclone Body, #28, unground socket and O-Ring ball
GN-3	Cyclone Flask, #28 unground sockets
GN-2RH	Cyclone for Mini Hot Box, Reduced Height, includes Teflon-lined #30 Cap

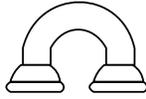
ISOKINETIC SOURCE SAMPLING EQUIPMENT

INDIVIDUAL GLASSWARE AND ACCESSORIES

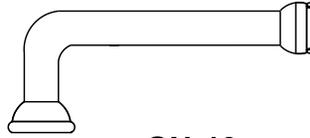
CONNECTORS



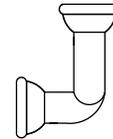
GN-1



GN-11

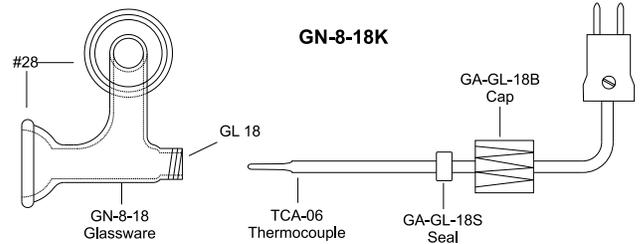


GN-13



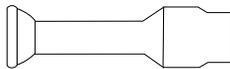
GN-8

Model	Description
GN-1	Cyclone Bypass, #28 unground socket and O-Ring Ball
GN-1-18	#18 Thread for TC (no cap or TC) (not shown)
GN-8	Double "L" with #18 Thread for TC. Order cap and seal separately
GN-8-18	Double "L" with #18 Thread for TC. Order cap and seal separately
GN-8-18K	Double "L" with Type-K TC assembly, cap and silicone seal
GN-11	U-Tube, #28 unground sockets
GN-13	Filter By-Pass, #28 unground socket and O-Ring ball



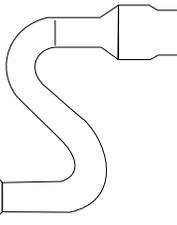
GN-8-18K

Controlled Condensate Glassware

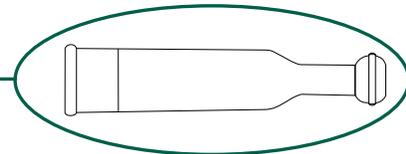


GFA-2590N-CCS

Use with these Connections



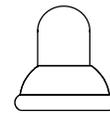
GFA-2590N-CC



GFA-2590B-CC

Product	Description	
GFA-2590N-CCS	GFA-2590 Insert Straight-Thru with Unground #28 Socket to Male Taper Joint, Connects directly to probe. Linear distance socket to taper start 2.5 inches.	
GFA-2590B-CC	Body for Controlled Condensate Method with ground #28 Ball on outlet	
GFA-2590N-CC	Insert with "S" Offset, Unground #28 Socket	
GFA-2590B-CC	Body for Controlled Condensate Method with ground #28 Ball on outlet	
GN-HCCH-A	Horizontal Condenser, CCS, Assembly #28 Controlled Condensate Sampling with #11 port for inserting cartridge heater, with Heater and TC assembly, #28 Socket both ends, Water Jacket w/Hose Barbs, TC-well and # 15 Solid Cap	\$333.00

BALLS AND CAPS



Glass Cap #28 unground socket.

GN-16

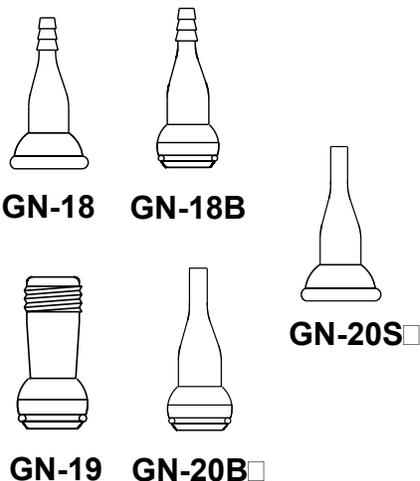


Glass Plug, #28 unground ball with Vitron® O-Ring.

GN-17

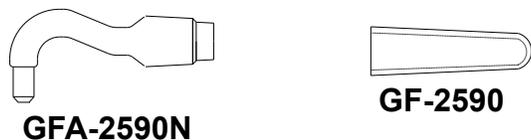
ADAPTERS

Model	Description
GN-18	#28 unground socket to hose barb
GN-18B	#28 unground O-Ring ball to hose barb
GN-19	#28 unground O-Ring ball to #22 thread. Order cap and seal separately
GN-20B4	#28 unground O-Ring ball to 1/4" tube
GN-20B6	#28 unground O-Ring ball to 3/8" tube
GN-20B8	#28 unground O-Ring ball to 1/2" tube
GN-20B10	#28 unground O-Ring ball to 5/8" tube
GN-20S4	#28 unground socket to 1/4" tube.
GN-20S6	#28 unground socket to 3/8" tube
GN-20S8	#28 unground socket to 1/2" tube
GN-20S10	#28 unground socket to 5/8" tube



Method 17 Glassware - Instack Filter Assemblies

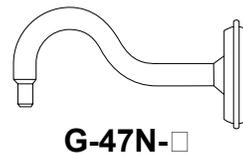
Product	Description
GFA-2590N*	Nozzle Insert, Glass for GFA-2590 In-Stack Filter Assembly, Specify Nozzle Size (4 thru 20)
GF-2590	Tapered Glass Fiber Thimble for SFA-2590 Filter, 25x90mm, Grade 86R, 10/box
GFA-2590B	Filter Body, Glass, for GFA-2590 Filter Assembly, 5/8" shank



Product	Description
G-47N 4	Nozzle I.D. 1/8"
G-47N 5	Nozzle I.D. 5/32"
G-47N 6	Nozzle I.D. 3/16"
G-47N 7	Nozzle I.D. 7/32"
G-47N 8	Nozzle I.D. 1/4"



Product	Description
G-47N 10	Nozzle I.D. 5/16"
G-47N 12	Nozzle I.D. 3/8"
G-47N 14	Nozzle I.D. 7/16"
G-47N 16	Nozzle I.D. 1/2"



Glass Filter Inlet, 47 mm, with Attached Nozzle

ISOKINETIC SOURCE SAMPLING EQUIPMENT

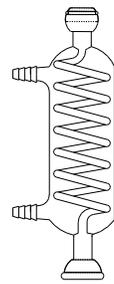
INDIVIDUAL GLASSWARE AND ACCESSORIES

Method 202 Glassware

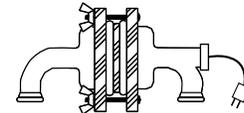
Product	Description
GN-VCHM-M202	M202 Spiral Condenser, #28 Socket both ends Water Jacket Hose Barbs, High Moisture sources above 15%
GN-VC-M202	Vertical Condenser, #28 Socket and # 28 Ball, Water Jacket Hose Barbs, 5/8 Inner Cooler Core.
GN-9AKS	Knock-out Impinger Assembly, Short Body Long Arm, Unground, (for HorizMM5)
GNFA-3U-18K	3 inch Filter Assembly, Unground Glass with 90 degree Inlet & Outlet, Open Style Alum Clamp & TC
GN-3S	3 inch Glass Filter Inlet, #28 Unground Socket, 90 Degree Bend
GN-3S-18	3 inch Glass Filter Outlet, #28 Unground Socket, 90 Degree Bend and #18 screw joint for TC
TCA-03X24	TC Assemby 3.5", 1/4 O.D. Stainless Steel, 24" TC Wire Extension
TCA-03X24G	TC Assemby, 3.5", 1/4 O.D. GLS, 24" TC Wire Extension

Glassware Knockout Components

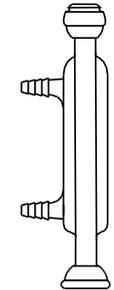
Product	Description
GN-9AKSA	Knockout Impinger Assembly - 24/40 Taper Unground (for Horizontal MM5) Included with Long Short Stems.
GN-9AKS	Knock-Out Impinger Assembly, Short Unground (for Horizontal MM5)
GN-9AKSB	Knockout Impinger Bottle - 24/40 Taper Unground (for Horizontal MM5), Used with Long / Short Stem.
GN-9AKSI	Knockout Impinger Stem - 24/40 Taper Short Male, Used Before Purge on MTHD 202.
GN-9AKSIL	Knockout Impinger Stem - 24/40 Taper Long Male Used for Purge on MTHD 202.
GN-HCCH	Horizontal Condenser for Controlled Condensate Sampling with #11 port for inserting cartridge heater, #28 Socket both ends, Water Jacket w/Hose Barbs, TC-well.
GN-HCCH-A	Horizontal Condenser for Controlled Condensate Sampling with #11 port for inserting cartridge heater, with Heater and TC assembly, #28 Socket both ends, Water Jacket w/Hose Barbs, TC-well and # 15 Solid Cap.
GNM-HC-18K	Horizontal Condenser, #28 Socket both ends, #18 joint for monitoring Condenser Outlet temperature, Water Jacket with Hose Barbs, Glass-Type K thermocouple assembly included.
GNM-HC	Horizontal Condenser, #28 Unground Sockets, Water Jacket Hose Barbs.
GNM-HC-18	Horizontal Condenser, #28 Socket both ends, Water Jacket with Hose Barbs with #18 GL joint. TC not included.
GNM-HC-18F	Horizontal Condenser, #28 Socket both ends, #18 joint for monitoring Filter Outlet temperature, Water Jacket with Hose Barbs, Glass Type K thermocouple assembly NOT included.
GNM-T	XAD Trap, #28 Unground Socket & O-Ring Ball (Top), Water, Jacket Hose Barbs.



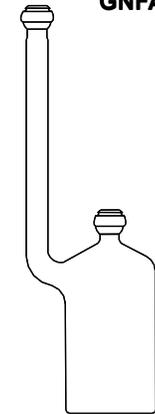
GN-VCHM-M202



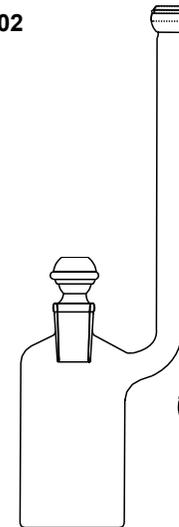
GNFA-3U-18K



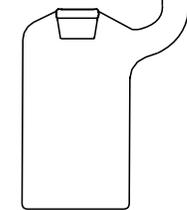
GN-VC-M202



GN-9AKS



GN-9AKSA



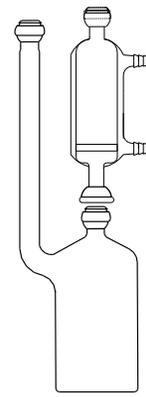
GN-9AKSB



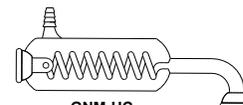
GN-9AKSI

GN-9AKSIL

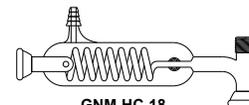
GNM-T



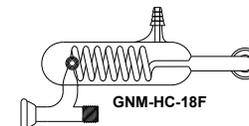
GN-9AKS



GNM-HC



GNM-HC-18



GNM-HC-18F

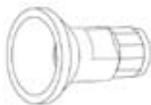
BALL AND SOCKET JOINT ADAPTERS

Glass-Filled PTFE

Apex offers Glass-Filled PTFE #28 Ball and Socket Adapters. Glass fiber fillers are added to Virgin PTFE to improve the mechanical properties. Adapters are resistant to deformation under a heavy load and will significantly improve the performance of the seal during a test. Glass-filled adapters are tapped for 1/4" NPT fittings.

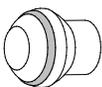
Glass-Filled PTFE #28 Socket to 3/8" Tube Fitting
(Includes Nylon Nut & PTFE Ferrule)

GA-28S6TG



Glass-Filled PTFE #28 Ball to 1/4" Female NPT

GA-28B4NTG



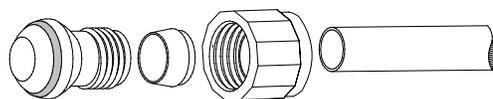
Glass-Filled PTFE #28 Socket to 1/4" Female NPT

GA-28S4NTG



Glass-Filled PTFE #28 Ball to 5/8" Tube Fitting
(Includes glass Nut, Ferrule and Viton® O-Ring)

GA-28B10TG



Probe Liner

GA-28S6TG **GA-28S4NTG & 8MSEL4N-PFA**

GA-28B4NTG

GA-28S4NTG **GA-28B4NTG & 8MSEL4N-PFA**

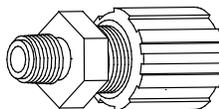
PFA Fittings
Apex offers both Straight and Elbow PFA Fittings with 1/4" NPT for 1/4", 3/8" and 1/2" tubing and a ball joint with a 5/8" tube union for adapting to plain probe liners. PFA (Perfluoro-alkoxy) fittings are chemically inert and highly corrosive resistant. Higher mechanical strength than PTFE at elevated temperatures (to 500°).

PFA Straight Connectors:

1/4" Tube Fitting to 1/4" MNPT **4MSC4N-PFA**

3/8" Tube Fitting to 1/4" MNPT **6MSC4N-PFA**

1/2" Tube Fitting to 1/4" MNPT **8MSC4N-PFA**

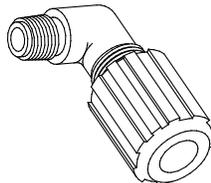


PFA Elbow Connectors:

1/4" Tube Fitting to 1/4" MNPT **4MSEL4N-PFA**

3/8" Tube Fitting to 1/4" MNPT **6MSEL4N-PFA**

1/2" Tube Fitting to 1/4" MNPT **8MSEL4N-PFA**



Probe Liners, page 17

Glass Filled PTFE Union
5/8" Union (includes nuts and ferrules)
NTG-10U

Glass Filled PTFE Nut
Glass Filled PTFE 5/8" Tube Nut
N-10TG

Glass Filled PTFE Ferrules
5/8" Glass Filled PTFE Ferrule
NTG-10F
5/8" Glass Filled PTFE Ferrule, Dozen
NTG-10F-DZ

Glass Filled PTFE Union Body
Tube Union, 5/8" Body Only
NTG-10UNN

Glass Filled PTFE Union
NTG-10U Assembled

ISOKINETIC SOURCE SAMPLING EQUIPMENT

STAINLESS STEEL BALL AND SOCKET JOINT ADAPTERS

Apex Instruments offers Stainless Steel #28 Ball and Socket Adapters in a variety of sizes, used for connecting to rigid or flexible sample lines. The #28 Ball includes O-Ring (O-116V).

Stainless Steel Ball Adapters

#28 Ball to 1/4" FNPT

GA-28B4N



GA-28B4N

#28 Socket to 1/4" FNPT

GA-28S4N



GA-28S4N

Stainless Steel Socket Adapter

#28 Socket to 1/4" Tube Fitting

GA-28S4

#28 Socket to 3/8" Tube Fitting

GA-28S6

#28 Socket to 1/2" Tube Fitting

GA-28S8

#28 Socket to 5/8" Tube Fitting

GA-28S10



GA-28S4

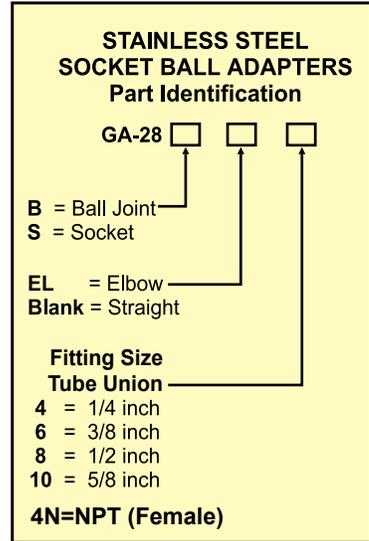


GA-28S4EL6

Stainless Steel Socket & Elbow Adapter

#28 Socket 3/8" Elbow Tube Fitting and 1/4" Union with TC Fitting

GA-28S4EL6



4MSEL4N-S

Stainless Steel Male Elbow Connector

1/4" Tube Fitting to 1/4" MNPT

4MSEL4N-S

3/8" Tube Fitting to 1/4" MNPT

6MSEL4N-S

1/2" Tube Fitting to 1/4" MNPT

8MSEL4N-S



SN-8-4

Stainless Steel Double "L" Connector

Double "L" with #28 Sockets and 1/4" Union for Thermocouple. (TCA-6X24).

SN-8-4



S-8-4K

Double "L" Adapter w/Thermocouple Kit. (Includes TC).

S-8-4K

Stainless Steel Straight Adapter

1/4" Tube Fitting to 1/4" MNPT

4MSC4N-S

3/8" Tube Fitting to 1/4" MNPT

6MSC4N-S

1/2" Tube Fitting to 1/4" MNPT

8MSC4N-S



4MSC4N-S



S-11

Stainless Steel U-Tube Connector

U-Tube connector with #28 Sockets.

S-11

NEW STAINLESS STEEL IMPINGER SET AND ACCESSORIES

New Stainless Steel Impinger Set and Accessories featuring stainless steel sport bottle with precision or custom fabricated press-in insert. Impingers are manufactured with #28 Ball and Sockets, 2-3/4" diameter and a 750ml capacity. Stainless Steel Impingers are interchangeable with glass impingers for many applications. This kit includes the standard method 5 configuration: 3 plain stem impingers and 1 with an orifice. This new design makes it easier to add ice to your impinger case.



Stainless Steel Impinger Set

Model	Description
SN-5C	Stainless Steel Impinger Assembly, #28 Socket & Ball, Includes: Three SN-9A, One SN-9AO, Three SN-11, One SN-8-4, Eight BS28WS clamps, Four KST-45 Keck Clips.

Individual Stainless Steel Impingers

Model	Description
SN-9A	Stainless Steel impinger Assembly, insert with bottle, straight stem, #28 balls (2), machined cap, #45 keck clip, 750 ml max capacity. (Discounted Assembly Price).
SN-9AO	Stainless Steel impinger Assembly, insert with bottle, with 1/16" stem orifice, #28 balls (2), machined cap, #45 keck clip, 750 ml max capacity. (Discounted Assembly Price).
SN-9IO	Stainless Steel Impinger insert only, orifice stem, #28 balls, machined
SN-11	U-Tube, #28 Sockets, Stainless Steel
SN-8-4	Double "L" Adapter, #28 Stainless Steel Sockets, & 1/4" TU for TCA-6X24 (Sold Separately)

Impingers Accessories

SN-9B	Stainless Steel Impinger Bottle only, 750 ml capacity, with threaded cap
KST-45	Keck Clip, size 45, plastic, used on SN-9A & SN-9AO SS impinger assemblies
SN-11	U-Tube, #28 Sockets, Stainless Steel
SN-8-4	Double "L" Adapter, #28 Stainless Steel Sockets, & 1/4" TU for TCA-6X24 (Sold Separately)
BS28WS	#28 Stainless Steel Ball Joint Clamp, Generic, with Screw
O-222S	O-Ring, Silicon Duro 40, Red (use one per impinge assembly)

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